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 TITLE:
                           Preparation of cyanoalkylated glycosides as
                           surfactants and their intermediates
 INVENTOR (S) ;
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Jpn. Kokai Tokkyo Koho, 12 pp
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     JP 03287596
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PRIORITY APPLN. INFO.:
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     Entered STN: 31 May 1992
     The title glycosides A(Gn)[(R10)xB]y (Gn = sugar residue derived by
     removing H's from all the glycosidic and nonglycosidic OH's of a C5-6
     reducing sugar or its condensate with average degree of condensation n=1-10;
     A = R2(OR3)z forming a O-glycosidic bond with Gn; R2 = C6-22 linear or branched alkyl, alkenyl, or alkylphenyl; R3 = C2-4 alkylene; z = 0-20; R1
     = C2-4 alkylene forming an ether bond with a nonglycosidic OH-derived O at
     one end of the terminus and an ether bond with B at the other end of the
     terminus; x = 0-10 representing (the total mol number of alkylene oxide added to the nonglycosidic OH's in the C5-6 reducing sugar or its condensate)/\gamma;
     y = number of nonglycosidic OH's in the C5-6 reducing sugar or its
     condensate; B = H, CH2CHXCN; at least one of y B groups = CH2CHXCN; X = H,
     Me) are prepared by reaction of A(Gn)[(R10)xH)y with CH:CXCN. Thus, 73.1 g
     acrylonitrile and 5 mL aqueous solution of 0.9 g KOH were added to a DMF
solution of
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PAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
     PATENT NO.
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                           `A2
                                               JP 1990-97341
                                                                        19900412
PRIORITY APPLN. INFO.:
                                               JP 1990-97341
                                                                        19900412
     Entered STN: 13 Jun 1992
     A(Gm)[(R10)xB]y[G = C5- or C6-reducing sugar residue (sugar residue)]
     excluding both the Hs of the non-glycosidic OHs and those of the
     glycosidic OHs); m = condensation degree (1-10); A = R2(OR3)z linked with
     Gm in a glycosidic linkage; R2 = C1-22 alkyl, alkenyl, alkynyl,
     alkylphenyl; R3 = C2-4 alkylene; z = 0-20; R1 = C2-4 alkylene, one end of
     which connects with a non-glycosidic O of the Gm residue and the other end
     forms an ether linkage with B; x = 0-10; y = number of non-glycosidic O of
     Gm; B = H, 2,3-dihydroxypropyl] were prepared as surfactants. Lauryl alc.
     was heated with glucose and p-toluenesulfonic acid monohydrate at
     100° to give lauryl glucoside with a condensation degree of 1.25.
     This product was heated with 2,3-epoxy-1-propanol in dioxane containing Et3N
     at 40° for 3 h to give a 2,3-dihydroxypropylated lauryl glucoside
     with a substitution degree of 1.0.
     ICM C07H015-08
     B01F017-56
     33-3 (Carbohydrates)
     Section cross-reference(s): 46
     hydroxypropylated alkyl glycoside; surfactant hydroxypropylated
     alkyl glycoside
     Surfactants
        (dihydroxypropylated alkyl glycosides)
     Glycosides
     RL: SPN (Synthetic preparation); PREP (Preparation)
        (alkyl, dihydroxypropyl ethers, preparation of, as surfactants
IT
     141472-96-0P
     RL: SPN (Synthetic preparation); PREP (Preparation)
        (preparation of, as surfactant)
     141472-96-0P
     RL: SPN (Synthetic preparation); PREP (Preparation)
        (preparation of, as surfactant) .
     141472-96-0 HCAPLUS
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β-D-Glucopyranoside, dodecyl mono-O-(2-hydroxypropyl)- (9CI)

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Absolute stereochemistry.

59122-55-3

C18 H36 O6

INDEX NAME)

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